

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	92	media near5 filter near5 graph	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:42
L2	14547	filter and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:47
L3	12	713/400.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:47
L4	3084	709/201,231.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/23 15:47
L5	82	719/310,315,316,328.ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT	OR	ON	2005/05/23 15:49
L6	240300	719/310,315,316,328.ccls. and pars\$3 or separat\$3 same (media or audio or video)	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
L7	313	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video))	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
L8	78	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
L9	78	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
L10	82	719/310,315,316,328.ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L11	78	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L12	0	395/551,650,835,200.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L13	0	395/551,650,835,200.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L14	12	713/400.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48

L15	19	725/115.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L16	218	709/201,231.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
L17	3084	709/201,231.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/23 15:48
L18	82	719/310,315,316,328.ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT	OR	ON	2005/05/23 15:49
S1	141	filter adj graph	US-PGPUB; USPAT	OR	ON	2004/08/05 14:42
S2	75	(filter adj graph) and audio\$5 and video\$5	US-PGPUB; USPAT	OR	ON	2003/12/07 13:04
S3	23	((filter adj graph) and audio\$5 and video\$5) and project	US-PGPUB; USPAT	OR	ON	2003/12/07 13:04
S4	19	((filter adj graph) and audio\$5 and video\$5) and project) and engine	US-PGPUB; USPAT	OR	ON	2003/12/07 13:04
S5	17	((filter adj graph) and audio\$5 and video\$5) and project) and engine) and pars\$5	US-PGPUB; USPAT	OR	ON	2003/12/07 13:14
S6	1	("6611215").PN.	USPAT; USOCR	OR	OFF	2003/12/07 13:14
S7	454	(audio and video and (pars\$5 or filter\$3) and (engine or render\$5)) and (pars\$ same video same audio)	US-PGPUB; USPAT	OR	ON	2003/12/07 13:23
S8	20	((audio and video and (pars\$5 or filter\$3) and (engine or render\$5)) and (pars\$ same video same audio)) and (filter\$5 near5 chain\$5)	US-PGPUB; USPAT	OR	ON	2003/12/07 14:08
S9	654	filter and pars\$5 and video and audio and (engine or render\$3)	USPAT	OR	ON	2003/12/07 14:12
S10	14	(filter and pars\$5 and video and audio and (engine or render\$3)) and (pars\$5 same filter same audio same video)	USPAT	OR	ON	2003/12/07 15:33
S11	9	"5913038".URPN.	USPAT	OR	OFF	2003/12/07 14:19
S12	33	pars\$3 same filter\$3 same video same audio	USPAT	OR	OFF	2003/12/09 14:38
S13	1	("5913038").PN.	USPAT; USOCR	OR	OFF	2003/12/31 20:30
S14	28	pars\$3 near2 audio near2 video	USPAT	OR	OFF	2004/01/06 20:44
S15	7	(pars\$3 near2 audio near2 video) and filter\$3	USPAT	OR	OFF	2004/01/06 20:43

S16	0	"l4" and (pars\$3 near2 audio near2 video)	USPAT	OR	OFF	2004/01/06 20:44
S17	60	split\$3 near2 audio near2 video	USPAT	OR	OFF	2004/04/04 17:45
S18	1544	audio and video and engine and edit\$3	USPAT	OR	OFF	2004/01/06 21:02
S19	762	(audio and video and engine and edit\$3) and filter\$3	USPAT	OR	OFF	2004/01/06 21:02
S20	117	((audio and video and engine and edit\$3) and filter\$3) and render\$3 and seek\$3	USPAT	OR	OFF	2004/01/06 21:03
S21	13	((((audio and video and engine and edit\$3) and filter\$3) and render\$3 and seek\$3) and ((pars\$3 or split\$3) near5 (audio or video)))	USPAT	OR	OFF	2004/01/06 21:11
S22	51	media adj processing adj system	USPAT	OR	ON	2004/01/06 21:12
S23	0	((media adj processing adj system) not microsoft) and (pars\$3 near2 audio near2 video)	USPAT	OR	ON	2004/01/06 21:12
S24	43	(media adj processing adj system) not microsoft	USPAT	OR	ON	2004/01/06 21:13
S25	579	((multi adj media) or multimedia) near processing	USPAT	OR	ON	2004/01/06 21:13
S26	1	((((multi adj media) or multimedia) near processing) and pars\$3 near2 audio near2 video	USPAT	OR	ON	2004/04/04 18:56
S27	1	"731491".ap.	US-PGPUB	OR	OFF	2004/04/04 17:45
S28	1	"731560".ap.	US-PGPUB	OR	OFF	2004/04/04 17:45
S29	4	media near8 project near8 matrix	USPAT	OR	ON	2004/04/04 18:58
S30	1416	filter near3 graph	USPAT	OR	ON	2004/04/04 18:58
S31	1	filter near3 graph near5 matrix	USPAT	OR	ON	2004/04/04 19:13
S32	8	("5327227" "5400187" "5913038" "6396421" "6411225" "6462682" "6512468" "6518894").PN.	USPAT	OR	OFF	2004/04/04 18:58
S33	11	"5913038".URPN.	USPAT	OR	OFF	2004/04/04 19:03
S34	28675	matrix and filter and media and source	USPAT	OR	ON	2004/04/04 19:14
S35	14059	(matrix and filter and media and source) and chain	USPAT	OR	ON	2004/04/04 19:14
S36	92	((matrix and filter and media and source) and chain) and (media near8 source) and (matrix near8 filter)	USPAT	OR	ON	2004/04/04 19:15

S37	3	((matrix and filter and media and source) and chain) and (media near8 source) and (matrix near8 filter)) and project	USPAT	OR	ON	2004/04/04 19:16
S38	133	minimiz\$3 near8 (media or audio or video) near8 source	USPAT	OR	ON	2004/04/04 19:16
S39	42	minimiz\$3 near8 (media or audio or video) near8 source and filter	USPAT	OR	ON	2004/04/04 19:17
S40	9	minimiz\$3 near8 (media or audio or video) near8 source and filter and (single near2 source)	USPAT	OR	ON	2004/04/04 19:18
S41	178	minimiz\$3 near8 source near8 filter	USPAT	OR	ON	2004/04/04 19:18
S42	3	minimiz\$3 near8 source near8 filter same media	USPAT	OR	ON	2004/04/04 19:19
S43	1	("6209041").PN.	USPAT; USOCR	OR	OFF	2004/04/04 19:22
S44	1	("6205492").PN.	USPAT; USOCR	OR	OFF	2004/04/04 19:26
S45	6	"6212574"	USPAT	OR	OFF	2004/04/04 19:24
S46	1	"6212574".pn.	USPAT	OR	OFF	2004/04/04 19:24
S47	1	("6389483").PN.	USPAT; USOCR	OR	OFF	2004/04/04 19:28
S48	1	("6671742").PN.	USPAT; USOCR	OR	OFF	2004/04/04 19:29
S49	24	media near8 project same filter	USPAT	OR	OFF	2004/04/04 19:30
S50	4	(media near8 project same filter) and (single near5 source)	USPAT	OR	OFF	2004/04/04 19:30
S51	44	media near8 project same filter	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/04 19:30
S52	4	(media near8 project same filter) and (single near5 source)	USPAT	OR	OFF	2004/04/04 19:31
S53	4	minimiz\$3 near3 media near3 source	USPAT	OR	OFF	2004/04/04 19:31
S54	351	media near8 project	USPAT	OR	OFF	2004/04/04 20:19
S55	145	media near8 project and filter	USPAT	OR	OFF	2004/04/04 20:19
S56	14	media near8 project near8 filter	USPAT	OR	OFF	2004/04/04 20:19
S57	2	(audio or video) near8 project near8 filter	USPAT	OR	OFF	2004/04/04 20:20
S58	1312	single near8 (audio or video) near8 source	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 20:25
S59	2	single near8 (audio or video) near8 source near8 pars\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 20:26


S60	11	single near8 (audio or video) near8 instance near8 source	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 20:31
S61	9	MPEG near8 instance near8 source	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 20:33
S62	7	MPEG near8 source near8 pars\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:20
S63	833287	minimiz\$3 or reduc\$3 near8 source near8 instances near8 object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:21
S64	4	(minimiz\$3 or reduc\$3) near8 source near8 instances near8 object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:21
S65	329	(minimiz\$3 or reduc\$3) near8 instances near8 object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:21
S66	90	(minimiz\$3 or reduc\$3) near8 instances near8 object and (audio or video)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:21
S67	47	(minimiz\$3 or reduc\$3) near8 instances near8 object and (audio or video) and filter	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:22
S68	5	(minimiz\$3 or reduc\$3) near8 instances near8 object and ((audio or video) same filter)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:25
S69	16956	(media or audio or video) near8 matrix	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:25
S70	7204	(media or audio or video) near8 matrix and filter	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:25
S71	4711	(media or audio or video) near8 matrix and filter and object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:26
S72	155	(media or audio or video) near8 matrix and filter and object and MPEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:26
S73	4	(media or audio or video) near8 matrix near8 filter and object and MPEG	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:56
S74	458	multimedia near8 instance	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 21:57
S75	1	multimedia near8 instance near8 (minimi\$5 or reduc\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:00

S76	21	multimedia near8 instance near8 object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:00
S77	0	multimedia near8 instance near8 object near8 (minimi\$5 or reduc\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:01
S78	5	multimedia near8 switch\$3 near8 matrix	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:06
S79	31	minimiz\$5 near5 object near5 instance	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:24
S80	6	multimedia near8 source near8 instance	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:25
S81	216	multimedia near8 source near8 process\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:25
S82	33	multimedia near8 source near8 multiplex\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:26
S83	0	multimedia near8 source near8 (de adj multiplex\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:26
S84	5	multimedia near8 source near8 (demultiplex\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 22:27
S85	10	multimedia near8 source near8 pars\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:36
S86	10200	filter near8 multiplex\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:39
S87	8	filter near8 multiplex\$5 near8 graph	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:42
S88	115	filter near8 multiplex\$5 near8 object	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:42
S89	254	filter near8 multiplex\$5 near8 (audio or video)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:42
S90	1	filter near8 multiplex\$5 near8 (audio or video) same pin	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/04 23:43
S91	0	"719"".""310,315,316,328".ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT	OR	ON	2004/08/05 14:44

S92	0	"719""."310,315,316,328".ccls. and single near8 (media or audio or video)	US-PGPUB; USPAT	OR	ON	2004/08/05 14:44
S93	69	719/310,315,316,328.ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
S94	214512	719/310,315,316,328.ccls. and pars\$3 or separat\$3 same (media or audio or video)	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
S95	258	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video))	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
S96	62	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT	OR	ON	2005/05/23 15:47
S97	69	719/310,315,316,328.ccls. and instance and single near8 (media or audio or video)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S98	62	719/310,315,316,328.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S99	0	395/551,650,835,200.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S100	0	"395".ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S101	1	("5913038").PN.	USPAT; USOCR	OR	OFF	2004/08/05 14:56
S102	8	("5333299" "5388264" "5390138" "5487167" "5581706" "5642477" "5712976" "5761417").PN.	USPAT	OR	OFF	2004/08/05 14:53
S103	8	(US-5333299-\$ or US-5761417-\$ or US-5712976-\$ or US-5642477-\$ or US-5581706-\$ or US-5487167-\$ or US-5390138-\$ or US-5388264-\$). did.	USPAT	OR	OFF	2004/08/05 14:55
S104	2551	709/201,231.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/23 15:48
S105	176	709/201,231.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S106	15	725/115.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48

S10 7	17	381/119.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/08/05 14:57
S10 8	0	707/104,104.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/08/05 14:58
S10 9	10	713/400.ccls. and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:48
S11 0	12815	filter and ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:46
S11 1	2610	filter same ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/08/05 14:59
S11 2	280	filter same ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance)) and project	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/08/05 15:00
S11 3	32	filter same ((pars\$3 or separat\$3) same (media or audio or video) same (single or instance)) and (project near8 (media or multimedia))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/08/05 15:00
S11 4	1	("6,535,920").PN.	USPAT; USOCR	OR	OFF	2004/10/15 08:27
S11 5	39	(US-6369855-\$ or US-6378035-\$ or US-6389483-\$ or US-6510460-\$ or US-6269107-\$ or US-6658477-\$ or US-5761417-\$ or US-6415101-\$ or US-6519288-\$ or US-5982360-\$ or US-6704813-\$ or US-6301558-\$ or US-6516354-\$ or US-6091772-\$ or US-6122619-\$ or US-6128597-\$ or US-6275507-\$ or US-6366325-\$ or US-6301304-\$ or US-6249803-\$ or US-6314565-\$ or US-6343292-\$ or US-6438616-\$ or US-6473858-\$ or US-6414996-\$ or US-6463486-\$). did. or (US-6490324-\$ or US-6535920-\$ or US-6154771-\$ or US-6212574-\$ or US-6205492-\$ or US-6209041-\$ or US-6396421-\$ or US-6512468-\$ or US-5913038-\$ or US-5959659-\$).did. or (US-20020158878-\$ or US-20030177292-\$ or US-20020002708-\$).did.	US-PGPUB; USPAT	OR	OFF	2004/10/15 09:43

S11 6	9	((US-6369855-\$ or US-6378035-\$ or US-6389483-\$ or US-6510460-\$ or US-6269107-\$ or US-6658477-\$ or US-5761417-\$ or US-6415101-\$ or US-6519288-\$ or US-5982360-\$ or US-6704813-\$ or US-6301558-\$ or US-6516354-\$ or US-6091772-\$ or US-6122619-\$ or US-6128597-\$ or US-6275507-\$ or US-6366325-\$ or US-6301304-\$ or US-6249803-\$ or US-6314565-\$ or US-6343292-\$ or US-6438616-\$ or US-6473858-\$ or US-6414996-\$ or US-6463486-\$).did. or (US-6490324-\$ or US-6535920-\$ or US-6154771-\$ or US-6212574-\$ or US-6205492-\$ or US-6209041-\$ or US-6396421-\$ or US-6512468-\$ or US-5913038-\$ or US-5959659-\$).did. or (US-20020158878-\$ or US-20030177292-\$ or US-20020002708-\$).did.) and (filter adj graph)	USPAT	OR	OFF	2004/10/15 10:39
S11 7	1	("6,442,658").PN.	USPAT; USOCR	OR	OFF	2004/10/15 10:39
S11 8	1	("5,913,038").PN.	USPAT; USOCR	OR	OFF	2004/01/11 18:30
S14 2	11	((("6173364") or ("6255943") or ("4220823") or ("5162904") or ("5179552") or ("5896181") or ("5990981") or ("5995505") or ("6064670") or ("6233735")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/18 06:44
S14 3	4	((("6496948") or ("6571283") or ("6567767") or ("6691259")).PN.	USPAT	OR	OFF	2005/04/18 11:20
S14 4	1	("6496948").PN.	USPAT	OR	OFF	2005/04/25 12:08
S14 5	1	("6,411,685").PN.	USPAT	OR	OFF	2005/04/25 13:04
S14 6	3	MIME and GUID same (mail)	USPAT	OR	ON	2005/04/25 13:16
S14 7	1678	MIME same mail GUID	USPAT	OR	ON	2005/04/25 13:16
S14 8	2	MIME same mail same GUID	USPAT	OR	ON	2005/04/25 13:16
S14 9	5	MIME same mail same GUID	US-PGPUB; USPAT	OR	ON	2005/04/25 13:16


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WebResults 1 - 10 of about **326,000** for **media filter graph dynamic**. (0.54 seconds)**Product search results for media filter graph dynamic**

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[Total Training Presents Premiere Editor's Bundle - \\$389.99 - Safe Harbor Computers](#)

Microsoft DirectX DirectShow Dynamic Reconnection

... for **dynamic** reconnection might be to remove **Filter 2** from the **graph**, ...
 the **media** type for the pin connection and the intermediate **filter** to use. ...

msdn.microsoft.com/library/en-us/directshow/htm/dynamicreconnection.asp - 17k - [Cached](#) - [Similar pages](#)

Microsoft DirectX DirectShow Dynamic Graph Building

... A source **filter** switches **media** types midstream, possibly requiring a new ...
Dynamic graph building can be initiated by an application or by a **filter** in ...
msdn.microsoft.com/library/en-us/directshow/htm/dynamicgraphbuilding.asp - 11k -
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[PDF] Using Multiple Graphs in DirectShow

File Format: PDF/Adobe Acrobat

... DirectShow uses a **graph** of connected **filters**. Each **filter** in the **graph** has the ...
 ... However, in suspend mode, **dynamic media** type changes originated by ...
www.gdcl.co.uk/articles/MultipleGraphs.pdf - [Similar pages](#)

Inca Series Overview - www.inscriber.com

... behind Inca is a highly efficient frame accurate mixer/compositor for **dynamic media**. The architecture of this component is that of a **filter graph**, ...
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... Protocol) **media** from a microphone and terminate RTP **media** on a speaker.
 WinRTP processes audio using '**filter-graphs**'. It supports the following: ...
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Elecard | Products | MPEG2 Demultiplexer

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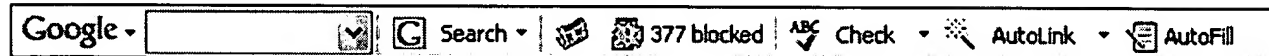
APPENDIX B

... and a set of **dynamic**-link libraries (DLLs) that enable you to play back ...
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Chapter 1: RealOne Player Environment

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 ... simple as well as compound **clips**. A simple **clip** is a **single** ... **Media** packets
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... you could manually build and **parse** SOAP messages using Flash's built-in XML
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... of inter **Media** can store and retrieve audio and video **clips**, respectively.
 ... **instances** can access the same data, the failure of a **single instance** will ...
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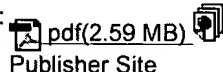
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1 [Special issue on ill-formed input: Recovery strategies for parsing extragrammatical language](#)

Jaime G. Carbonell, Philip J. Hayes

 July 1983 **Computational Linguistics**, Volume 9 Issue 3-4

Full text available:


 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

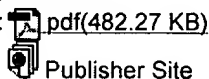
Practical natural language interfaces must exhibit robust behaviour in the presence of extragrammatical user input. This paper classifies different types of grammatical deviations and related phenomena at the lexical, sentential and dialogue levels and presents recovery strategies tailored to specific phenomena in the classification. Such strategies constitute a tool chest of computationally tractable methods for coping with extragrammaticality in restricted domain natural language. Some of the ...

2 [Applications: Discourse pragmatics and ellipsis resolution in task-oriented natural language interfaces](#)

Jaime G. Carbonell

 June 1983 **Proceedings of the 21st conference on Association for Computational Linguistics**

Full text available:


 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

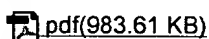
This paper reviews discourse phenomena that occur frequently in task-oriented man-machine dialogs, reporting on an empirical study that demonstrates the necessity of handling ellipsis, anaphora, extragrammaticality, inter-sentential metalanguage, and other abbreviatory devices in order to achieve convivial user interaction. Invariably, *users prefer* to generate terse or fragmentary utterances instead of longer, more complete "standalone" expressions, even when given clear instructions to t ...

3 [Issues in multimedia interface design: media integration and interface agents](#)

Brenda Laurel, Tim Oren, Abbe Don

 March 1990 **Proceedings of the SIGCHI conference on Human factors in computing systems: Empowering people**

Full text available:


 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A central challenge in the design of multimedia databases is integrating information from

different media sources while reducing the cognitive load imposed on users by the tasks of learning and operating the interface. In light of results from a prototype multimedia project developed at Apple, we believe that an agent-style interface addresses this challenge in several ways. This paper discusses techniques for achieving media integration and details the use of interface agents in facilitati ...

4 The Proteus presentation system

Susan L. Graham, Michael A. Harrison, Ethan V. Munson

November 1992 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fifth ACM SIGSOFT symposium on Software development environments**, Volume 17 Issue 5

Full text available:  pdf(1.10 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software development environments can increase user productivity by presenting information in more useful ways. This paper describes Proteus, the presentation system of Ensemble, a software development environment that supports a wide variety of language and document capabilities. Proteus provides a set of services which allow the appearance of software development documents, such as programs or design specifications, to be determined by formal specifications of style. Proteus is based on a ...

5 Flavor: a language for media representation

Alexandros Eleftheriadis


November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Graph-based code selection techniques for embedded processors

October 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 4

Full text available:  pdf(356.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Code selection is an important task in code generation for programmable processors, where the goal is to find an efficient mapping of machine-independent intermediate code to processor-specific machine instructions. Traditional approaches to code selection are based on tree parsing which enables fast and optimal code selection for intermediate code given as a set of data-flow trees. While this approach is generally useful in compilers for general-purpose processors, it may lead to poor code ...

Keywords: SIMD instructions, code selection, data-flow graphs, embedded processors, irregular data paths

7 An information system based on distributed objects

Michael Caplinger

December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 22 Issue 12

Full text available:  pdf(1.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Telesophy system is intended to provide transparent access to all of a community's online information. The scale of the system requires that it be distributed across many machines via a network; the multiple types and formats of the information require that it be a multimedia system. We describe a prototype that uses objects to represent, query, display, and edit information. A two-level storage system is used to store the objects on

multiple servers; queries are proces ...

8 Add one egg, a cup of milk, and stir: single source documentation for today

Carl Stieren

October 1997 **Proceedings of the 15th annual international conference on Computer documentation**

Full text available:  pdf(776.88 KB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)



9 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available:  pdf(448.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)




MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate current ...

Keywords: MPEG-7, XML database systems, multimedia databases

10 EmbeddedButtons: supporting buttons in documents

Eric A. Bier

October 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 4

Full text available:  pdf(1.87 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#), [review](#)




EmbeddedButtons is a library of routines and a runtime kernel that support the integration of buttons into document media, including text and graphics. Existing document editors can be modified to participate in this open architecture with the addition of a few simple routines. Unlike many button systems that insert special button objects into document media, this system supports turning existing document objects into buttons. As a consequence, buttons inherit all of the attributes of the objects they replace.

Keywords: active documents, buttons, user interface layout

11 Linking documents: XLinkProxy: external linkbases with XLink

Paolo Ciancarini, Federico Folli, Davide Rossi, Fabio Vitali

November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**

Full text available:  pdf(282.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)



In the linking model of the World Wide Web each link is stored in the referring document within an attribute of the A tag. All the hyperlink defined this way can reference a single resource or a single fragment. With the evolution of Web technologies more powerful linking languages (XLink and XPointer) have been proposed. Here we introduce XLinkProxy, a Web application that allows sophisticated hyperlink (defined using XLink and XPointer) to be defined outside referring documents, giving users the ability to manage links centrally.

Keywords: XLink, XPointer, external linkbases

12 Abstract interaction tools: a language for user interface management systems

Jan Van Den Bos

April 1988 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 10 Issue 2

Full text available:  pdf(2.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

13 Paper session I: techniques: Event-based modeling and processing of digital media

Rahul Singh, Zhao Li, Pilho Kim, Derik Pack, Ramesh Jain

June 2004 **Proceedings of the 1st international workshop on Computer vision meets databases**

Full text available:  pdf(740.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Capture, processing, and assimilation of digital media-based information such as video, images, or audio requires a unified framework within which signal processing techniques and data modeling and retrieval approaches can act and interact. In this paper we present the rudiments of such a framework based on the notion of "events". This framework serves the dual roles of a conceptual data model as well as a prescriptive model that defines the requirements for appropriate signal processing. Amongst ...

14 Query processing in a multimedia document system

Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Full text available:  pdf(2.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

15 Contigra: an XML-based architecture for component-oriented 3D applications

Raimund Dachseit, Michael Hinz, Klaus Meißner

February 2002 **Proceeding of the seventh international conference on 3D Web technology**

Full text available:  pdf(368.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Even though numerous Web3D technologies exist, most of them do not support a high-level, multi-disciplinary authoring process. Moreover, concepts of reuse are rarely provided. A component-based approach is introduced with the CONTIGRA architecture to construct interactive, three-dimensional applications, either stand-alone or web-based. The approach is entirely based on declarative XML documents describing the component implementation, its interface, as well as component configuration and compo ...

Keywords: 3D components, 3D user interfaces, 3D widgets, XML schema, component-

based development, contigra, extensible 3D (X3D), virtual environments

16 An object-oriented SGML/HyTime compliant multimedia database management system

M. Tamer Özsu, Paul Iglinski, Duane Szafron, Sherine El-Medani, Manuela Junghanns
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  [pdf\(1.77 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Foundations of multimedia database systems

Sherry Marcus, V. S. Subrahmanian
May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3


Full text available:  [pdf\(4.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Though numerous multimedia systems exist in the commercial market today, relatively little work has been done on developing the mathematical foundation of multimedia technology. We attempt to take some initial steps towards the development of a theoretical basis for a multimedia information system. To do so, we develop the notion of a structured multimedia database system. We begin by defining a mathematical model of a media-instance. A media-instance may be thought of as "glue" ...

Keywords: data structures, multimedia databases, query languages, query processing

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poët, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

19 Session VII - interfaces: multi-media and multi-user: A performing medium for working group graphics

Fred Lakin
December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Writing and drawing together on a common display often assist a working group in a task. For example, face-to-face groups have long enjoyed the richness of graphic communication found on blackboards. The spontaneous image manipulations which take place over time on a blackboard can be viewed as a *text-graphic performance*. A human performer generates and manipulates text and graphics for the purpose of assisting the working group in their task. The phenomenon of performed text-graphics prese ...

20 Papers: mmdump: a tool for monitoring internet multimedia traffic

Jacobus van der Merwe, Ramón Cáceres, Yang-hua Chu, Cormac Sreenan

October 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 5

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Internet multimedia traffic is increasing as applications like streaming media and packet telephony grow in popularity. It is important to monitor the volume and characteristics of this traffic, particularly because its behavior in the face of network congestion differs from that of the currently dominant TCP traffic. To monitor traffic on a high-speed link for extended periods, it is not practical to blindly capture all packets that traverse the link. We present *mmdump*, a tool that parse ...

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1 [Distributed stream control for self-managing media processing graphs](#)

Lisa Amini, Jorge Lepre, Martin Kienzle

 October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**

 Full text available: pdf(511.49 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

2 [On the impact of policing and rate guarantees in DiffServ networks: a video streaming application perspective](#)

Wael Ashmawi, Roch Guerin, Stephen Wolf, Margaret Pinson

 August 2001 **ACM SIGCOMM Computer Communication Review, Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

 Full text available: pdf(481.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Over the past few years, there have been a number of proposals aimed at introducing different levels of service in the Internet. One of the more recent proposals is the Differentiated Services (Diff-Serv) architecture, and in this paper we explore how the policing actions and associated rate guarantees provided by the Expedited Forwarding (EF) translate into perceived benefits for applications that are the presumed users of such enhancements. Specifically, we focus on video streaming application ...

3 [Student best paper contest: Proscenium: a framework for spatio-temporal video editing](#)

Eric P. Bennett, Leonard McMillan

 November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

 Full text available: pdf(2.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach to video editing where movie sequences are treated as spatio-temporal volumes that can be sheered and warped under user control. This simple capability enables new video editing operations that support complex postproduction modifications, such as object removal and/or changes in camera motion. Our methods do not rely on complicated and error-prone image analysis or computer vision methods. Moreover, they facilitate an editing approach to video that is similar to standard ...

Keywords: feature removal, feature selection, multimedia framework, special effects, video editing, video layers, video stabilization

4 Full papers: Reflection, self-awareness and self-healing in OpenORB

Gordon S. Blair, Geoff Coulson, Lynne Blair, Hector Duran-Limon, Paul Grace, Rui Moreira, Nikos Parlavantzas

November 2002 **Proceedings of the first workshop on Self-healing systems**

Full text available:  [pdf\(229.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


There is a growing interest in the area of self-healing systems. Self-healing does however impose considerable demands on system infrastructures---especially in terms of openness and support for reconfigurability. This paper proposes that the self-awareness inherent in reflective technologies lends itself well to the construction of self-healing systems. In particular, the paper examines the support provided by the Open ORB reflective middleware technology for the construction of this increasing ...

Keywords: middleware, reflection, self-awareness, self-healing

5 Finding and visualizing inter-site clan graphs

Loren Terveen, Will Hill

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: co-citation analysis, collaborative filtering, computer supported cooperative work, human-computer interaction, information access, information retrieval, information visualization, social filtering, social network analysis

6 Video Applications: Design of a virtual auditorium

Milton Chen

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available:  [pdf\(1.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We built a videoconference system called the Virtual Auditorium to support dialog-based distance learning. The instructor can see dozens of students on a tiled wall-sized display and establish eye contact with any student. Telephone-quality audio and television-quality video can be streamed using commodity codecs such as wavelet and MPEG-4. Support for stream migration allows a seamless user interface to span the multiple computers driving the display wall..We performed user studies on the audit ...


Keywords: display wall, distance learning, eye contact, virtual auditorium

7 A paradigm shift in the distribution of multimedia

Gerard Parr, Kevin Curran

June 2000 **Communications of the ACM**, Volume 43 Issue 6

Full text available:  [pdf\(226.87 KB\)](#)

 [html\(33.72 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Universal media: media-rich content for bandwidth-starved devices

Aaron E. Walsh

May 2000 **ACM SIGGRAPH Computer Graphics**, Volume 34 Issue 2


Full text available:  [pdf\(858.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Universal Media is a Web3D consortium working group solution that increases the realism of on-line Web3D worlds (VRML, Java 3D and other on-line 3D technologies). It also decreases network downloads by defining a small, cross-platform library of locally resident media elements (textures, sounds, 3D objects and filters) and a uniform resource name (URN) mechanism by which Web3D content creators can incorporate these media elements into their worlds. Universal Media allows content authors to creat ...

9 Constructing, organizing, and visualizing collections of topically related Web resources

Loren Terveen, Will Hill, Brian Amento

March 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 1

Full text available:  [pdf\(303.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site

Keywords: cocitation analysis, collaborative filtering, computer supported cooperative work, information visualization, social filtering, social network analysis

10 HAM: a general-purpose hypertext abstract machine

Brad Campbell, Joseph M. Goodman

November 1987 **Proceeding of the ACM conference on Hypertext**

Full text available:  [pdf\(706.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Hypertext Abstract Machine (HAM) is a general-purpose, transaction-based, server for a hypertext storage system. The server is designed to handle multiple users in a networked environment. The storage system consists of a collection of contexts, nodes, links, and attributes that make up a hypertext graph. This paper demonstrates the HAM's versatility by showing how Guide1 buttons, Intermedia webs, and NoteCards FileBoxes can be implemented using the HAM's st ...

11 Content analysis: Supporting timeliness and accuracy in distributed real-time content-based video analysis

Viktor S. Wold Eide, Frank Eliassen, Ole-Christoffer Granmo, Olav Lysne

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available:  [pdf\(339.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Real-time content-based access to live video data requires content analysis applications that are able to process the video data at least as fast as the video data is made available to the application and with an acceptable error rate. Statements as this express quality of service (QoS) requirements to the application. In order to provide some level of control of the QoS provided, the video content analysis application must be scalable and resource aware so that requirements of timeliness and ac ...

Keywords: QoS and resource management, event-based communication, parallel

processing, real-time video content analysis, task graph scheduling

12 The VuSystem: a programming system for visual processing of digital video

C. Lindblad, D. Wetherall, D. Tennenhouse

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available:  [pdf\(808.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In computer-participative multimedia applications, the computer not only manipulates media, but also digests it and performs independent actions based on media content. We present a design approach that applies the programming techniques of visualization systems to the development of computer-participative multimedia applications. We describe an implementation based on this approach, and report performance measurements that demonstrate it is practical. We conclude by describing three applic ...

13 Multi-media RISC informatics: retrieving information with simple structural components

Daniela Rus, Devika Subramanian

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available:  [pdf\(1.42 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Multimedia and visualization (MV): Modelling and filtering of MPEG-7-compliant meta-data for digital video

Harry Agius, Marios C. Angelides

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf\(235.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recent MPEG-7 standard specifies a semi-structured meta-data format for open interoperability of multimedia. However, the standard refrains from specifying how the meta-data is to be used or how meta-data inappropriate to user requirements may be filtered out. Consequently, we propose COSMOS-7, which produces structured MPEG-7-compliant meta-data for digital video and enables content-based hybrid filtering of that meta-data.

Keywords: MPEG-7, filtering, meta-data, modelling, multimedia

15 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Full text available:  [pdf\(1.26 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

16 MediaView: a general multimedia digital publication system

Richard L. Phillips

July 1991 **Communications of the ACM**, Volume 34 Issue 7Full text available:  [pdf\(5.35 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MediaView is a multimedia digital publication system that was designed to be flexible and free from restrictions. It was also designed to take maximum advantage of the media-rich hardware and software capabilities of the NeXT [5] computer, especially the features of the NeXTdimension [17] subsystem. Rather than emphasize the work that is almost always paired with multimedia, presentation, MediaView emphasizes communication. The system does not tacitly impose the "publ ...

17 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1Full text available:  [pdf\(237.24 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencies ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

18 Let's browse: a collaborative Web browsing agent

Henry Lieberman, Neil W. Van Dyke, Adrian S. Vivacqua

December 1998 **Proceedings of the 4th international conference on Intelligent user interfaces**Full text available:  [pdf\(1.57 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: agents, browsing, collaboration, user profiles

19 A multi-paradigm querying approach for a generic multimedia database management system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang

March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1Full text available:  [pdf\(524.08 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describing ...

Keywords: media independence, multi-paradigm querying, multimedia database

management, uniform data modeling

20 Poster session and reception: Towards universal access to content using MPEG-7

José M. Martínez, César González, Oscar Fernández, Clara García, Jaime de Ramón

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available:  pdf(84.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a system providing functionalities for cataloging multimedia content using MPEG-7 and accessing to content and descriptions. The cataloging application indexes content using MPEG-7 and creates annotated variations in order to have the capability of offering media content to a large amount of different terminals and through different access networks. The created multimedia database, both descriptions and content (original sources and variations), is used by, currently, two app ...

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IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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